

PDB Series

High Efficiency Programmable DC Power Supply



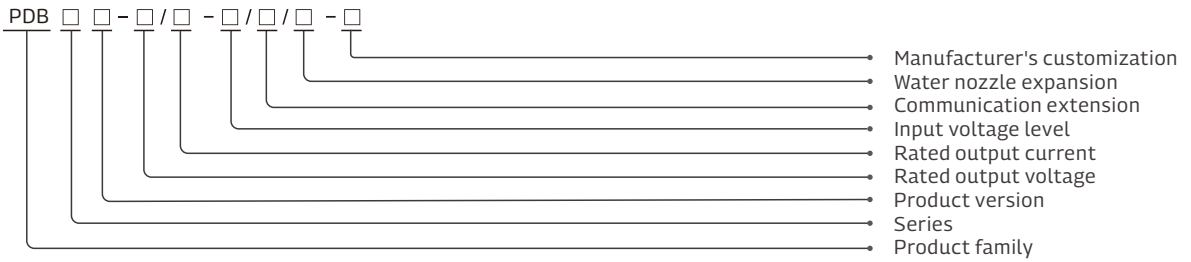
Features

- Standard 3U chassis design
- Chinese human-computer interaction interface
- Wide voltage design to meet various power grid uses
- IGBT inverter technology and high-speed DSP as the control core
- Automatic switching between constant voltage and current
- Telemetry function to compensate voltage drops on load lines
- High-precision regulation of voltage and current through a digital encoder
- Support over 10 conventional industrial bus communications
- External analog programming and monitoring (0-5V or 0-10V)
- Support multi-machine parallel operation
- Light weight, small size, high power factor and high efficiency
- CE certification qualified

Usages

- The PDB Series is a high-precision, high-stability water-cooling DC power supply with a maximum output power of 40kW with a standard chassis design. This series are widely used in lasers, magnet accelerators, semiconductor preparation, laboratories and other demanding industries.

Definitions



Specifications

Input	
Input voltage	3Φ AC176-265V/3ΦAC342-460V
Conversion efficiency	≥90%
Power factor	Reachable 0.99
Output	
Output power	10kW, 20kW, 30kW, 40kW
Output voltage	6V-600V
Output current	17A-1000A
Performance index	
Temperature coefficient	Reachable 100ppm/°C
Communication	Standard RS485, expandable RS232, CAN, DeviceNET, PROFIBUS, PROFINET, ETHERCAT, ETHERNET IP, MODBUS TCP etc.
Size	3U
Cooling method	Water-cooling
Constant voltage mode	
Noise	≤0.5% Ue
Ripple wave	≤0.05% Ue
Input adjustment rate	0.05% Ue
Load adjustment rate	0.05% Ue
Stability	≤5×10 ⁻⁴
Constant current mode	
Ripple wave	≤0.05% Ie
Input adjustment rate	0.05% Ie
Load adjustment rate	0.05% Ie
Stability	≤5×10 ⁻⁴

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